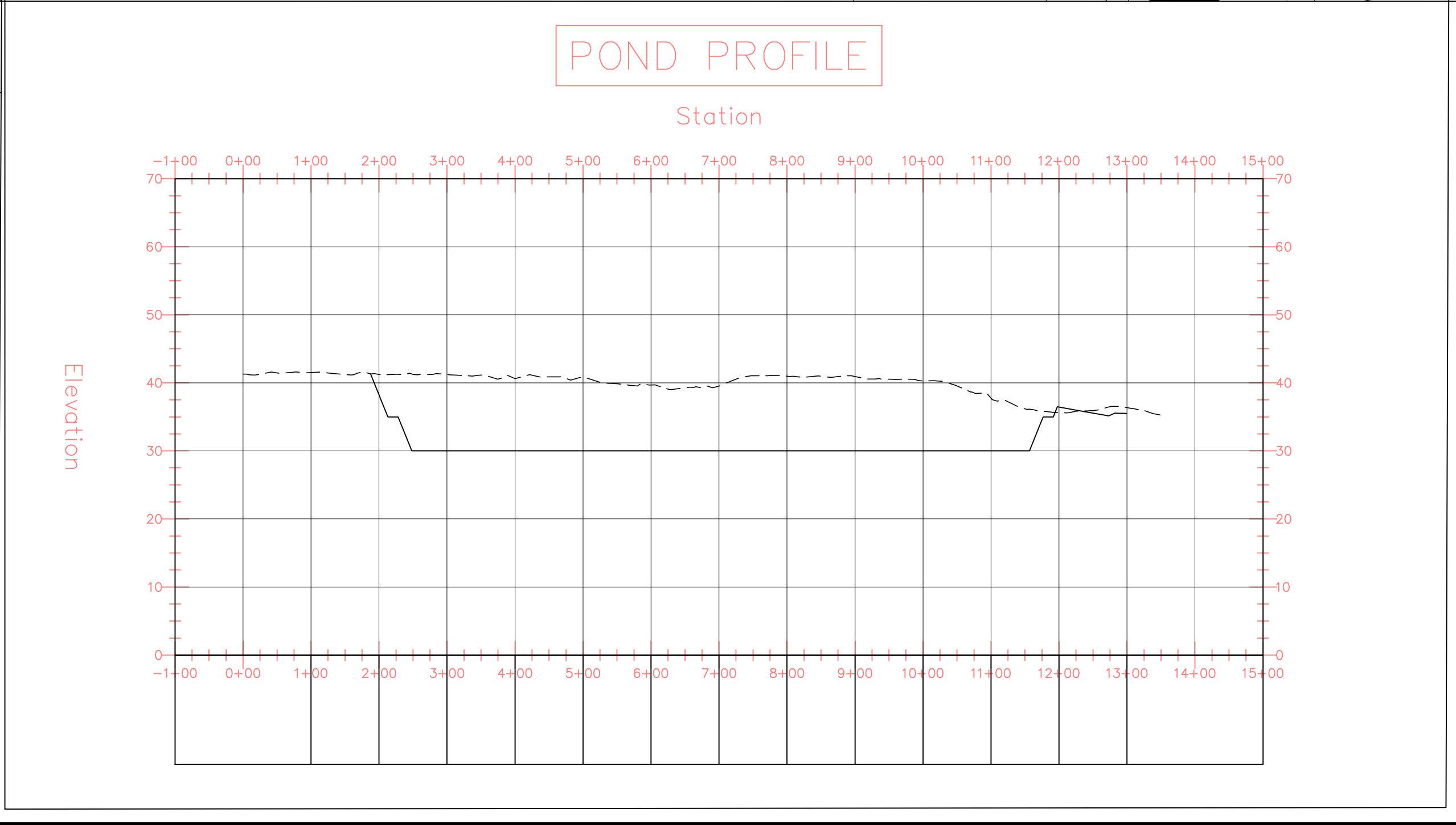
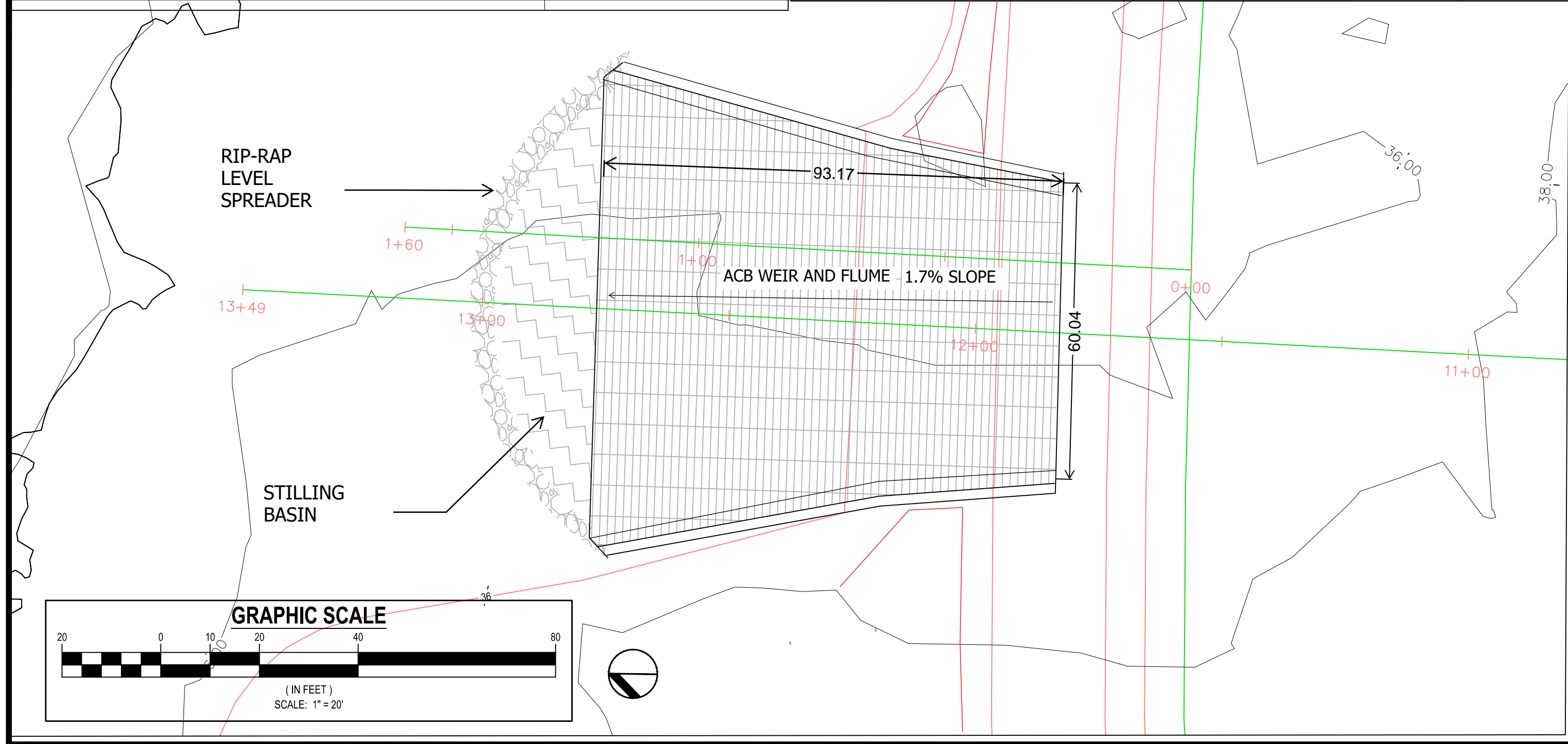
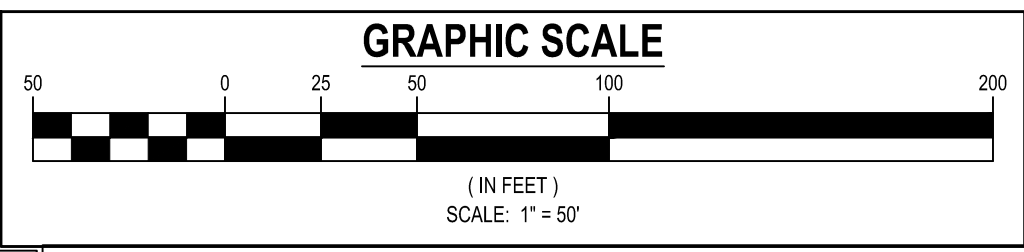


**BASIN & WEIR DESIGN DATA:**

- 55 AC-FT TOTAL STORAGE
- 20 AC-FT DEAD STORAGE FOR GROUNDWATER DISPLACEMENT
- 23 AC-FT NEEDED FOR MAXIMUM PUMP RATE OF 7.5 MGD
- 17 AC-FT SEDIMENT STORAGE CAPACITY
- OUTFALL WEIR CREST = 36.5-FT MSL
- WEIR CROSS SECTION AREA = 120 SF (60-FT x 2-FT)
- MAXIMUM DESIGN DISCHARGE = 11.6 CFS
- MAXIMUM FLOW DEPTH 0.5 FT
- VELOCITY AT CREST = 0.833 FT/SEC
- VELOCITY AT FLUME BASE = 2.6 FT/SEC
- VELOCITY AT LEVEL SPREADER = 0.09 FT/SEC



General Notes:

1. Basin side slopes shall be 4:1 unless otherwise directed by site engineer.
2. Constructed slopes and disturbed ground shall be stabilized with appropriate seed and straw mulch.
3. Wetland bench shall be 15-ft wide and seeded with the following species mix:  
33% *Typha latifolia*  
33% *Scirpus cyperinus*  
33% *Sagittaria latifolia*
4. Outfall flume shall be constructed from articulated concrete block mats, similar to Class 40-T ArmorFlex.
5. Level spreader shall be constructed with Type 1 stone rip-rap.
6. Pump water discharge location shall be stabilized with Type 1 stone rip-rap.
7. Excavated materials shall be placed between county road ROW and edge of basin cut and western most property boundary.
8. Effluent monitoring shall follow SCG73000 NPDES General Permit for Discharges Associated with Nonmetal Mining Facilities (Part X. A. 1-4).

24-HOUR CONTACT

OWNER/DEVELOPER  
COMPANY:  
ADDRESS:

CONTACT:  
PHONE:  
FAX:  
EMAIL:

CONTRACTOR  
COMPANY:  
ADDRESS:

CONTACT:  
PHONE:  
FAX:  
EMAIL:

SURVEYOR  
COMPANY:  
ADDRESS:

CONTACT:  
PHONE:  
FAX:  
EMAIL:

SITE DESIGNER  
COMPANY: GEORGIA CIVIL, INC.  
ADDRESS: P.O. BOX 896  
MADISON, GA 30650  
PHONE: 706-342-1104

Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for variances in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance (including field verifying location and depth of utilities that are to be saved and protected). Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.



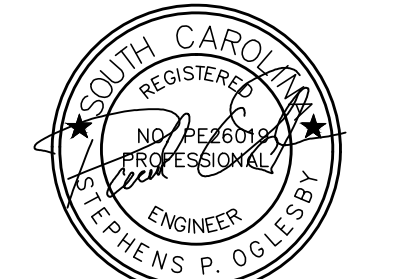
georgia civil

CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
LAND SURVEYING

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Professional Seal



Project Information

**RDA LIMESTONE MINE**  
PUMP WATER SETTLING BASIN  
SEABOARD ROAD  
WILLIAMSBURG COUNTY

REVISIONS	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.
DATE OF FIRST ISSUE	11/23/2017	JWW	1	11/23/2017	JWW	1
DATE OF FIRST ISSUE	11/23/2017	JWW	2	11/23/2017	JWW	2
DATE OF FIRST ISSUE	11/23/2017	JWW	3	11/23/2017	JWW	3
DATE OF FIRST ISSUE	11/23/2017	JWW	4	11/23/2017	JWW	4
DATE OF FIRST ISSUE	11/23/2017	JWW	5	11/23/2017	JWW	5

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PLAN and PROFILE

Sheet number

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